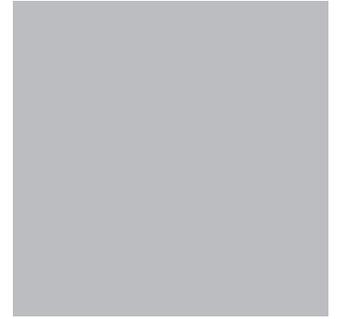
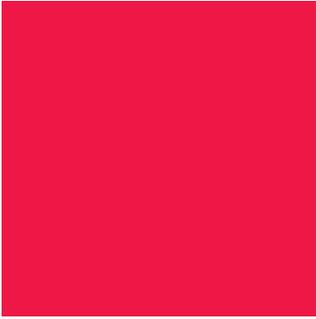




**DIRAK**

**LOCKING SOLUTIONS FOR  
HEATING, VENTILATION AND  
AIR CONDITIONING (HVAC)**



# Our Products Meet all Heating, Ventilation and Air Conditioning Requirements

Air conditioning units not only regulate the climate, they are also exposed to it. They ensure that the room temperature and climate in large buildings such as hospitals or supermarkets remain within the optimum range. To achieve this, a large part of the sensitive technology is located on the roofs of buildings and requires special protection.

As an experienced partner, we support suppliers in the field of air conditioning technology with tailor-made solutions. We offer important advantages such as IP protection, weather resistance, secure closure, and high compression. This protects the expensive technology and enables a long functional life.



## IP protection

Air conditioning units and ventilation technology are usually located on roofs and are therefore exposed to the weather. To ensure that the systems function smoothly, our closure solutions also meet high IP protection classes thanks to their high-quality workmanship, thus keeping out dust and moisture.



## Corrosion resistance

Corrosion resistance is a must in outdoor areas. We therefore only use high-quality raw materials for our products, which we also treat with a UV-resistant powder coating.



## Weather resistance

Harsh weather conditions affect outdoor systems and locking technology. For this reason, we use high-quality materials such as stainless steel or powder-coated zinc die to ensure a long product service life even under these conditions. We also offer clip-on profiles made of synthetic rubber.



## Compression

Thanks to high compression, our solutions also ensure uniform contact pressure and maximum tightness to protect the high-quality technology of the air conditioning units from dirt and water. Thanks to flexible installation options, they also adapt ideally to the respective conditions and offer a high level of convenience when opening and closing.



## Adjustability

With our solutions, users can adjust the contact pressure precisely to the seal. For example, 3D hinges and compression latches are available for this purpose. The 2D and 3D hinges also allow doors to be optimally aligned in place.

# Always the Right Product for your Application

Our closure solutions for HVAC applications are more than just functional components—they are well-designed system modules that not only feature a modular design, but also combine safety, efficiency, and flexibility.

## **Modularity for maximum flexibility**

Our products have a modular design and can be customized to suit any enclosure size, opening direction, and installation situation. This enables tailor-made solutions that can be seamlessly integrated into existing systems. They also offer secure locking for insulated and pressurized doors of various thicknesses. In order to cope with different pressure conditions – such as negative pressure (underpressure) or positive pressure in HVAC enclosures – we offer models for both inward and outward opening doors. This ensures functionality at all times, even under demanding operating conditions.

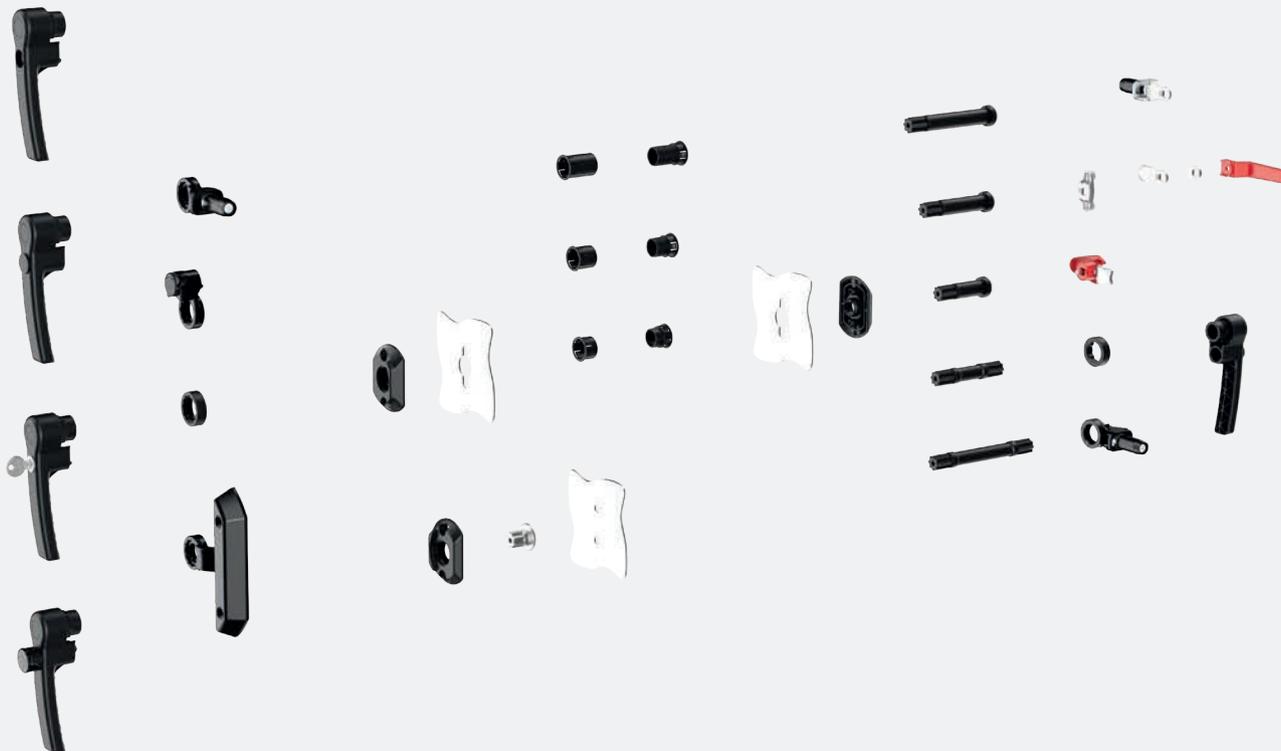
## **Patented emergency release for maximum safety**

In critical moments, every second counts: our patented emergency release enables quick and safe opening, even in the event of a power failure, external locking, or an emergency. The release is designed so that it can be operated from the inside at any time – a decisive advantage when people are in maintenance areas or technical rooms. This ensures that people are not locked in through no fault of their own and can leave the facility quickly in an emergency.

## **Plastic shafts to prevent cold bridges**

In HVAC systems, especially in outdoor units, thermal separation between the interior of the housing and the outside environment plays a crucial role. Conventional closures with metal shafts conduct the outside temperature directly into the interior of the housing, promoting condensation or even icing. Our solution: plastic shafts with low thermal conductivity. Unlike metal, plastic hardly conducts heat or cold. This means there is no continuous connection between the inside and outside, which effectively prevents the formation of cold bridges. This protects the technology from moisture damage and improves the energy efficiency of the entire system.





Further accessories such as cams, shafts and rosettes for our HVAC solutions can be found at [www.dirak.com](http://www.dirak.com)

# Modular Heavy Duty Latch System

## for Heating, Ventilation, and Air Conditioning Technology

### HVAC Heavy Duty Latch System

6-281

- Significantly reduced heat conduction of the handle system through the use of PA
- Door thicknesses from 25 to 87 mm
- Emergency release possible
- Without lock, with cylinder, insert or compatible with padlock
- All handle variants can be fitted with additional padlock security
- Suitable for pressure-stable and non-pressure-stable doors
- IP66 according to DIN EN 60529 by sealing kit (optional)
- Materials:
  - Handle: PA, black



6-281



### HVAC Heavy Duty Latch System with 2 Handles

6-282

- Significantly reduced heat conduction of the handle system through the use of PA
- Door thicknesses from 25 to 100 mm
- With additional handle for interior use
- Without lock, with cylinder, insert or compatible with padlock
- All handle variants can be fitted with additional padlock security
- Suitable for pressure-stable and non-pressure-stable doors
- IP66 according to DIN EN 60529 by sealing kit (optional)
- Materials:
  - Handle: PA, black



6-282



## HVAC Heavy Duty Latch System for pre-door installation 6-283

- No thermal bridge due to pre-door installation
- Without lock, with cylinder, insert or compatible with padlock
- All handle variants can be fitted with additional padlock security
- Suitable for inward or outward swinging doors
- IP66 according to DIN EN 60529 by sealing kit (optional)
- Materials:
  - Handle: PA, black



6-283

## Emergency Release 1-275.01

- Emergency unlocking from the inside when doors are locked from the outside
- Control element in signal red for better identification inside the climate control unit
- Can be used with straight and cranked standard cams made of steel or stainless steel
- Can be retrofitted
- In the HVAC sector for 6-281
- Material:
  - zinc die, red



1-275.01

# Other DIRAK Solutions for Heating, Ventilation and Air Conditioning (HVAC)

## HVAC Heavy Duty Latch

6-270

- Heavy duty handle for equipment doors
- RH / LH application
- Swivel movement of the handle 90°
- Cam 45° adjustable
- Hook b) fix dimension 22 mm
- Hook c) adjustable from 18 – 25.5 mm



6-270

## HVAC Heavy Duty Latch System

6-280

- Handle outside
- Without lock or lockable
  - with key cylinder
  - with insert
- Suitable for different door-thicknesses
- Lockable handles, keyed alike, are equipped with stainless steel dust-shutter
- IP65 according to DIN EN 60529 by sealing kit (optional)



6-280

# Precise Connections

## for individual HVAC applications

### HVAC Locking Hinge with Pressure Release and Locking Function 4-270.02

- The material complies with classification UL 94 V0 / Halogen-free
- Turning the insert 90° results in a 4mm stroke of the hinge, which allows pressure to be equalized. After another 90° turn, the lock opens completely so that the door can be lifted-off
- Adjustable in: Height  $\pm 2$  mm / Width  $\pm 2$  mm
- For nested doors
- 130 ° Opening angle
- RH / LH application
- Material:
  - Hinge halves: PA, black, UL 94 V0
  - Insert: zinc die, black



4-270.02

### HVAC Module Fastener 6-280.06

- Module Fastener made of high-strength aluminum
- PA protective cap for protection against damage and from weather-related influences
- Precise alignment of two housings via three axes (X, Y, Z)
- High mechanical stability with low weight
- Corrosion-resistant and durable for industrial applications
- Ensures precise alignment and gap-free connection
- Material:
  - Fastener: aluminum
  - Cover: PA, black



6-280.06

## 3D Hinge

4-350.01

- 3D screw-on hinge, adjustable
- Teeth in the adjustment bushings and the slotted holes in the hinge halves reliably prevent the hinge from slipping
- Full-surface contact of the screw head in the adjustment bushings
- 3D adjustability possible using an additional alignment plate
- Drill hole center distances identical to those of the locking hinge with pressure relief
- Material:
  - Hinge halves: zinc die, black or chrome plated
  - Alignment plate: steel, zinc plated



4-350.01

## Screw-on Hinge

4-270.01

- Screw-on hinge with locking function
- For nested doors
- Hinge visible
- RH / LH application
- 130° Opening angle
- When using 4 hinges, the door can be lifted off completely
- O-Ring for smooth turning motion of the insert
- Material:
  - zinc die, black or chrome-plated



4-270.01

**Pioneering**  
in Latch, Hinge and  
Fastening Technology



Quarter-Turns



Swinghandles



Multi-Point Locking Systems



Handles



Fastening Technology

**DIRAK®**



Hinges



Mechatronic  
Locking Systems



Gaskets

**DIRAK is more than that!**

We have plenty of other product  
solutions for your fields of application.

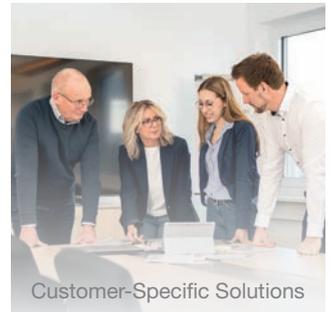
**Contact us:**

contactrequest@dirak.de  
Phone: +49(0) 2333/837-0

**DIRAK.com**



Latches



Customer-Specific Solutions